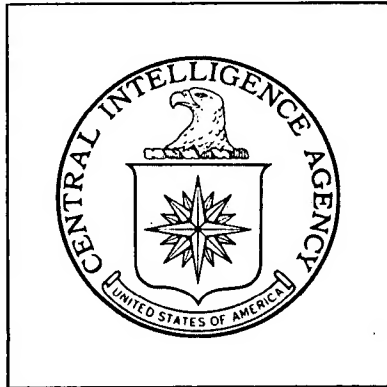


**Top Secret**



**DIRECTORATE OF  
INTELLIGENCE**

**Industrial Facilities  
(Non-Military)**

*Basic Imagery Interpretation Report*

**Selected Copper Production Facilities**

**China**



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DATE MAY 1970

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CENTRAL INTELLIGENCE AGENCY  
Directorate of Intelligence  
Imagery Analysis Service

ABSTRACT

This report updates a previous basic report on five of the major copper production facilities in China. It is based on photography from late 1968 through March 1970.

At the Pai-yin plant, three small support buildings have been constructed. At the Shen-yang plant, a sulfuric acid facility has been built which appeared operational in October 1969. Since the previous report, no construction or dismantling has been observed at the Chu-chou, Kun-ming, or Shen-hung-ching copper plants.

The smelter at the Chu-chou plant was seen operating for the first time in February 1969, and it has been operating on subsequent photographic coverage. The other four plants were seen operating during the period covered by this report.

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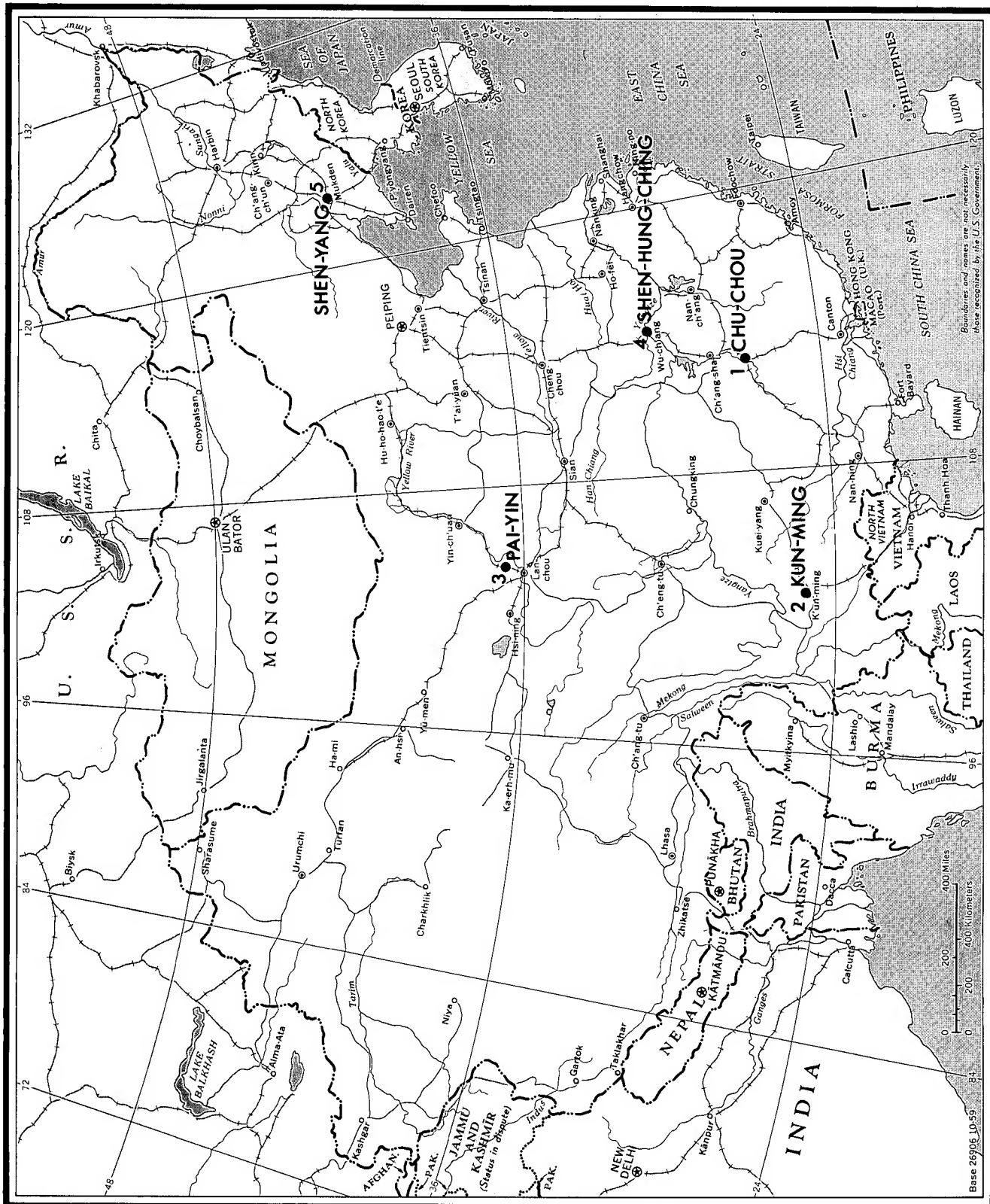


FIGURE 1. LOCATION MAP.

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### INTRODUCTION

This report presents information on the current status of the following five copper plants in China and describes any changes since the previous report.

1. Chu-chou Nonferrous Metals Plant 601
2. Kun-ming Copper Smelter and Refinery Ta-pu-chi
3. Pai-yin Copper Smelter and Refinery Plant
4. Shen-hung-ching Copper Smelter
5. Shen-yang Nonferrous Metals Plant

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### Document References

CIA. RCS 13/0140/69, Selected Copper Production Facilities, China, May 1969  
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CIA. IAR 85003, Selected Nonferrous Metals Plants, Communist China, July 1967,  
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### Requirement

COMIREX NOI  
Support Number 420362

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chu-chou Nonferrous Metals Plant 601		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49RGA050850	27-52-35N 113-04-41E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0498-IAL, 2nd ed, Sep 60, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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## BASIC DESCRIPTION

No changes have been observed in the copper production facilities at Chu-chou Nonferrous Metals Plant 601 since [ ] the date of the latest imagery used in the previous report. In November 1968, it could not be determined whether the smelter was operating due to the poor quality of the photography. In February 1969 the smelter was seen operating for the first time, and it was operating in July, September, and October 1969 photography. Smoke was emanating from the roasting and smelting facilities, and roofs were discolored due to dust from the crushing and grinding units.

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INSTALLATION OR ACTIVITY NAME	COUNTRY
Kun-ming Copper Smelter and Refinery Ta-pu-chi	CH

UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
48RTC655772	25-05-53N 102-40-27E	

MAP REFERENCE	25X1
ACIC. USATC, Series 200, Sheet M0496-17HL, 3rd ed. Jan 68. Scale 1:200,000 (SECRET)	

LATEST IMAGERY USED	NEGATION DATE (If required)	25X1
	NA	

**BASIC DESCRIPTION**

No changes have been observed at the Kun-ming Copper Smelter and Refinery since April 1968, the date of the latest imagery used in the previous report. The plant was not operating in December 1968. It was operating in February and May 1969 as indicated by heavy smoke emanating from the stack serving the roasting and smelting sections. It could not be determined whether the plant was in operation in September 1969 due to scattered clouds covering portions of the plant.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pai-yin Copper Smelter and Refinery Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
48SVR290450	36-32-53N 104-11-52E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0383-22HL, 3rd ed, Dec 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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## BASIC DESCRIPTION

Since 7 December 1968, the date of the latest imagery used in the previous report, three small support buildings have been constructed at the Pai-yin Copper Smelter and Refinery Plant. The plant was operating on all the referenced photography as indicated by heavy smoke emanating from the stack serving the roasting and smelting sections.

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INSTALLATION OR ACTIVITY NAME			COUNTRY	
Shen-hung-ching Copper Smelter			CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		COMIREX NO.	NIETB NO.
50RLJ050400	30-10-45N 114-55-42E		None	None
MAP REFERENCE				
2nd RTS. USATC, Series 200, Sheet M0493-11HL, 4th ed, Jul 68, Scale 1:200,000				
(SECRET)				
LATEST IMAGERY USED		NEGATION DATE (If required)		
		NA		

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## BASIC DESCRIPTION

No changes have been observed at the Shen-hung-ching Copper Smelter since November 1968, the date of the latest imagery used in the previous report. Since that time the plant has been seen on good-quality photography of July and October 1969. The plant was not in operation in July, but it was operating in October as indicated by heavy smoke emanating from the stack serving the smelting section.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shen-yang Nonferrous Metals Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWG302283	41-48-37N 123-21-58E	
MAP REFERENCE		
USATC, Series 200, Sheet M0290-11HL, 4th ed, Jan 66, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

## BASIC DESCRIPTION

Since January 1969, the date of the latest photography used in the previous report, a sulfuric acid facility has been constructed at the Shen-yang Nonferrous Metals Plant. It will utilize the waste gases from the copper smelters for the production of sulfuric acid. In January 1969 the sulfuric acid facility was in the early stages of construction, and in October 1969 it was complete and appeared operational.

The copper smelters were operating in June, October, and December 1969 and March 1970 as indicated by heavy smoke emanating from one or both stacks serving the smelters.

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